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Appendix B

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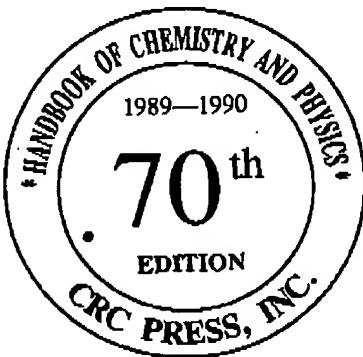
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ELECTRONIC CONFIGURATION OF THE ELEMENTS

By Laurence S. Foster

References: F. H. Spedding and A. H. Daane, Editors, *The Rare Earths*, John Wiley and Sons, Inc. Publishers, New York, 1961. R. F. Gould, Editor, *Lanthanide-Actinide Chemistry, Advances in Chemistry Series, No. 71*, American Chemical Society, Washington, D.C., 1967; Paper No. 14, Mark Fred, *Electronic Structure of the Actinide Elements*.

Atomic No.	Element	K	L	M	N	O	P	Q
		1	2	3	4	5	6	7
		s p	s p d	s p d f	s p d f	s p d f	s p d f	s p d f
1	H	1	2					
2	He	1	2					
3								
4	Li	2	1					
5	B	2	2	1				
6	C	2	2	2				
7	N	2	2	2	1			
8	O	2	2	2	2			
9	F	2	2	2	2	1		
10	Ne	2	2	2	2	2		
11								
12	Na	2	2	2	2	2		
13	Mg	2	2	2	2	2		
14	Al	2	2	2	2	2		
15	Si	2	2	2	2	2		
16	P	2	2	2	2	2		
17	S	2	2	2	2	2		
18	Cl	2	2	2	2	2		
19								
20	K	2	2	2	2	2		
21	Ca	2	2	2	2	2		
22	Ti	2	2	2	2	2		
23	V	2	2	2	2	2		
24	Cr	2	2	2	2	2		
25	Mn	2	2	2	2	2		
26	Fe	2	2	2	2	2		
27	Co	2	2	2	2	2		
28	Ni	2	2	2	2	2		
29	Cu	2	2	2	2	2		
30	Zn	2	2	2	2	2		
31	Ga	2	2	2	2	2		
32	Ge	2	2	2	2	2		
33	As	2	2	2	2	2		
34	Se	2	2	2	2	2		
35	Br	2	2	2	2	2		
36	Kr	2	2	2	2	2		
37								
38	Rb	2	2	2	2	2		
39	Sr	2	2	2	2	2		
40	Y	2	2	2	2	2		
41	Zr	2	2	2	2	2		
42	Nb	2	2	2	2	2		
43	Mo	2	2	2	2	2		
44	Tc	2	2	2	2	2		
45	Ru	2	2	2	2	2		
46	Rh	2	2	2	2	2		
47	Pd	2	2	2	2	2		
48	Ag	2	2	2	2	2		
49	Cd	2	2	2	2	2		
50	In	2	2	2	2	2		
51	Sn	2	2	2	2	2		
52	Sb	2	2	2	2	2		
53	Te	2	2	2	2	2		
54	I	2	2	2	2	2		
55	Xe	2	2	2	2	2		

* Note irregularity.

Atomic No.	Element	K	L	M	N	O	P	Q
		1	2	3	4	5	6	7
		s p	s p d	s p d f	s p d f	s p d f	s p d f	s p d f
55	Ca	2	2	2	2	2	2	2
56	Sc	2	2	2	2	2	2	2
57	Ts	2	2	2	2	2	2	2
58	Cr	2	2	2	2	2	2	2
59	Pr	2	2	2	2	2	2	2
60	Md	2	2	2	2	2	2	2
61	Sm	2	2	2	2	2	2	2
62	Tb	2	2	2	2	2	2	2
63	Dy	2	2	2	2	2	2	2
64	Ho	2	2	2	2	2	2	2
65	Er	2	2	2	2	2	2	2
66	Tb	2	2	2	2	2	2	2
67	Yb	2	2	2	2	2	2	2
68	Lu	2	2	2	2	2	2	2
69	Hf	2	2	2	2	2	2	2
70	Ta	2	2	2	2	2	2	2
71	W	2	2	2	2	2	2	2
72	Re	2	2	2	2	2	2	2
73	Os	2	2	2	2	2	2	2
74	Ir	2	2	2	2	2	2	2
75	Pt	2	2	2	2	2	2	2
76	Au	2	2	2	2	2	2	2
77	Hg	2	2	2	2	2	2	2
78	Tl	2	2	2	2	2	2	2
79	Pb	2	2	2	2	2	2	2
80	Bi	2	2	2	2	2	2	2
81	Po	2	2	2	2	2	2	2
82	At	2	2	2	2	2	2	2
83	Rn	2	2	2	2	2	2	2
84	Fr	2	2	2	2	2	2	2
85	Ra	2	2	2	2	2	2	2
86	Ac	2	2	2	2	2	2	2
87								
88								
89								
90	Ts	2	2	2	2	2	2	2
91	Pr	2	2	2	2	2	2	2
92	U	2	2	2	2	2	2	2
93	Xp	2	2	2	2	2	2	2
94	Eu	2	2	2	2	2	2	2
95	Er	2	2	2	2	2	2	2
96	Ts	2	2	2	2	2	2	2
97	Yb	2	2	2	2	2	2	2
98								
99								
100								
101								
102								
103								
104								